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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/762,036	01/21/2004	Stephen J. Todd	E0295.70201US00	3938
23628 7590 07/09/2007 WOLF GREENFIELD & SACKS, P.C. 600 ATLANTIC AVENUE BOSTON, MA 02210-2206			EXAMINER LEROUX, ETIENNE PIERRE	
			ART UNIT 2161	PAPER NUMBER
			MAIL DATE 07/09/2007	DELIVERY MODE PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	Application No.		Applicant(s)	
	10/762,036		TODD ET AL.	
	Examiner		Art Unit	
	Etienne P. LeRoux		2161	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 07 May 2007.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 29,30,32-46,48-62 and 64-91 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 29,30,32-46,48-62 and 64-91 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 21 January 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)             | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)    | Paper No(s)/Mail Date. _____  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____   | 6) <input type="checkbox"/> Other: _____                                    |

***Claim Status***

Claims 29, 30, 32-46, 48-62 and 64-91 are pending; claims 31, 47 and 63 having been cancelled. Claims 29, 30, 32-46, 48-62 and 64-91 are rejected as detailed below.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 29, 30, 32-46, 48-62 and 64-91 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pub No US 2005/0055518 (Hochberg et al), hereafter Hochberg in view of Pub No US 2004/0153844 (Ghose et al), hereafter Ghose.

Claims 29, 45, 61, 66, 73, 74, 77, 80, 83, 86 and 89:

Hochberg discloses:

(A) receiving a request from the host to delete a unit of data stored on the storage system

(B) determining whether a previously-defined retention period for the unit of data has expired by performing the acts of:

(B1) retrieving first information, associated with the unit of data, that identifies a manner of accessing second information specifying the previously defined retention period; [archive program 12, Fig 1]

(B2) using the first information to retrieve the second information specifying the previously-defined retention period [retention protection setting 16, Fig 1]

(C) when it is determined in the act (B) that the retention period for the unit of data has not expired, denying the request to delete the unit of data [paragraphs 10 and 21]

Hochberg discloses the elements of the claimed invention as noted above but does not disclose wherein the first information is information identifying a retention class to which the unit of data belongs, wherein the second information is a retention period associated with the retention class, and wherein the method further comprises an act of maintaining, on the at least one storage system, a record associating the retention period with the retention class. Ghose discloses a timeWindow class attribute [paragraph 53 and Fig 7]. It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Hochberg per the above for the purpose of providing a time period from beginning to end to measure threshold amounts [paragraph 53 and Fig 7].

Claims 30, 46 and 62:

The combination of Hochberg and Ghose discloses the elements of the claimed invention as noted above and further discloses deleting the unit of data when determined that the retention period has expired [Hochberg, paragraph 21]

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Claims 32, 48 and 64:

The combination of Hochberg and Ghose discloses the elements of the claimed invention as noted above and further discloses accessing the record on the storage system to retrieve the previously-defined retention period [Hochberg, paragraph 23]

Claims 33, 49 and 65:

The combination of Hochberg and Ghose discloses the elements of the claimed invention as noted above and further discloses receiving at the at least one storage system a second request from the at least one host requesting that the at least one storage system modify the retention period of the retention class [Hochberg, paragraph 23]

Claims 34, 50, 75, 81 and 87:

The combination of Hochberg and Ghose discloses the elements of the claimed invention as noted above and further discloses reducing the retention period [Hochberg, paragraph 22]

Claims 35, 51, 76, 82 and 88:

The combination of Hochberg and Ghose discloses the elements of the claimed invention as noted above and further discloses wherein the second request is to increase the retention period of the retention class [Hochberg, paragraph 23]

Claims 36 and 52:

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The combination of Hochberg and Ghose discloses the elements of the claimed invention as noted above and further discloses modifying the second information specifying the retention period in response to the second request [Hochberg, paragraph 23]

Claims 37 and 53 :

The combination of Hochberg and Ghose discloses the elements of the claimed invention as noted above and further discloses modifying the second information without modifying the content of the unit of data [Hochberg, paragraphs 23 and 24]

Claims 38 and 54:

The combination of Hochberg and Ghose discloses the elements of the claimed invention as noted above and further discloses wherein the request comprises an event command indicating the occurrence of an event [Hochberg, paragraph 23].

Claims 39, 55, 67, 78, 84 and 90:

The combination of Hochberg and Ghose discloses the elements of the claimed invention as noted above and further discloses wherein the event command does not specify the manner in which the retention period of the retention class is to be reduced, and wherein the act further comprises an act of determining the manner of reducing the retention period of the retention class by referring to information stored within or accessible to the storage system [Hochberg, paragraphs 23 and 24]

Claims 40, 56, 68, 79, 85 and 91:

The combination of Hochberg and Ghose discloses the elements of the claimed invention as noted above and further discloses wherein the second request specifies the manner in which the length of the retention period of the retention class is to be reduced [Hochberg, paragraph 22]

Claims 41, 57 and 69:

The combination of Hochberg and Ghose discloses the elements of the claimed invention as noted above and further discloses determining whether the retention period class is permitted to be reduced and reducing the retention period only when the retention period for the retention class is permitted to be reduced [Hochberg, paragraph 24]

Claims 42, 58 and 70:

The combination of Hochberg and Ghose discloses the elements of the claimed invention as noted above and further discloses an act of determining whether the retention period of the retention class as capable of being reduced [Hochberg, paragraph 24]

Claims 43, 59 and 71:

The combination of Hochberg and Ghose discloses the elements of the claimed invention as noted above and further discloses whether the retention period of the retention class is designated as capable of being reduced by examining the retention period [Hochberg, paragraphs 23 and 24]

Claims 44, 60 and 72:

The combination of Hochberg and Ghose discloses the elements of the claimed invention as noted above and further discloses whether the retention period of the retention class is designated as capable of being reduced by examining a flag associated with the retention class [Hochberg, paragraph 31]

### ***Response to Arguments***

Applicant's arguments filed 5/7/2007 have been fully considered but are moot based on above new grounds of rejection necessitated by applicant's claim amendments.

### ***Contact Information***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Etienne P. LeRoux whose telephone number is (571) 272-4022. The examiner can normally be reached on Monday through Friday, 8:00 am 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Apu Mofiz can be reached on (571) 272-4080. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.



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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Etienne LeRoux

6/28/2007

A handwritten signature in black ink, appearing to read 'Etienne P. LeRoux', written in a cursive style.

ETIENNE LEROUX  
PRIMARY EXAMINER